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Om protein - protein search, using sw model

Run on: February 11, 2003, 19:45:30 ; Search time 142.457 Seconds (without alignments)
2118.076 Million cell updates/sec

Title: US-09-497-967-7

Perfect score: 2540

Sequence: 1 MKNNILVILLISFINQIKS.....OCDFAFLSISLLISYLL 468

Scoring table: BL050M62

Gapop 10.0 , Gapext 0.5

Searched: 4569144 seqs, 64473310 residues

Total number of hits satisfying chosen parameters: 4569144

Post-processing: Minimum Match 0%
Maximum Match 100%

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Listing first 45 summaries

Database : Pending_Patents_NA_Main:*

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3: /cgn2_6_ptodata/1/paa/US07_COMB.pep:*

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25: /cgn2_6_ptodata/1/paa/US1011_COMB.pep:*

26: /cgn2_6_ptodata/1/paa/US1021_COMB.pep:*

27: /cgn2_6_ptodata/1/paa/US050_COMB.pep:*

RESULT 1

US-09-497-967-7

Sequence 7, Appl1

Sequence 5, Appl1

Sequence 6, Appl1

Sequence 54, Appl1

Sequence 6, Appl1

Sequence 5, Appl1

Sequence 15, Appl1

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2540	100.0	468	18	US-09-497-967-7
2	2540	100.0	468	18	US-09-497-967-7
3	2533	99.7	468	18	US-09-497-967-54
4	921	36.3	442	18	US-09-497-967-6
5	921	36.3	442	18	US-09-498-612-5
6	843.5	33.2	414	3	US-07-763-352A-15

8

Prior. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2540	100.0	468	18	US-09-497-967-7
2	2540	100.0	468	18	US-09-497-967-7
3	2533	99.7	468	18	US-09-497-967-54
4	921	36.3	442	18	US-09-497-967-6
5	921	36.3	442	18	US-09-498-612-5
6	843.5	33.2	414	3	US-07-763-352A-15

100.0% Score 2540; DB 18; Length 468;

Query Match

GENERAL INFORMATION:

APPLICANT: Clark, Theodore G.

INVENTOR: Dickerson, Jr., Harry W.

APPLICANT: Lin, Tian-Long

TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF FILE REFERENCE: 235-007101

CURRENT FILING DATE: 2000-02-04

PRIOR APPLICATION NUMBER: 60/131,121

PRIOR FILING DATE: 1999-04-27

PRIOR APPLICATION NUMBER: 60/118,634

PRIOR FILING DATE: 1999-02-04

PRIOR APPLICATION NUMBER: 60/122,372

PRIOR FILING DATE: 1999-03-02

PRIOR APPLICATION NUMBER: 60/124,905

PRIOR FILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 102

SEQ ID NO 7

LENGTH: 468

TYPE: PRT

ORGANISM: Ichthyophthirius multifiliis

US-09-497-967-7

Best Local Similarity 100.0%; Pred. No. 6.9e-213; Mismatches 0; Indels 0; Gaps 0;

Db 1 MKNNLVILISLFINQIKSANCPCVGETNTAGQVDDLGTPANCVNCQKNFYNNAAFFV 60

Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKNNLVILISLFINQIKSANCPCVGETNTAGQVDDLGTPANCVNCQKNFYNNAAFFV 60

Db 1 MKNNLVILISLFINQIKSANCPCVGETNTAGQVDDLGTPANCVNCQKNFYNNAAFFV 60

Qy 61 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

Db 61 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

Qy 61 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

Db 61 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

Qy 121 NFNENAFNENAGASTCTACPVNRYGAGTAGNAATIVACNVACPTGTALDDGVTTDYV 180

Db 121 NFNENAFNENAGASTCTACPVNRYGAGTAGNAATIVACNVACPTGTALDDGVTTDYV 180

Qy 121 NFNENAFNENAGASTCTACPVNRYGAGTAGNAATIVACNVACPTGTALDDGVTTDYV 180

Db 121 NFNENAFNENAGASTCTACPVNRYGAGTAGNAATIVACNVACPTGTALDDGVTTDYV 180

Qy 181 RSFTECVKCRNFYNGNGNTPNPNGKSOCTPCPAKPAVNAQATLGNDATITACNVIA 240

Db 181 RSFTECVKCRNFYNGNGNTPNPNGKSOCTPCPAKPAVNAQATLGNDATITACNVIA 240

Qy 181 RSFTECVKCRNFYNGNGNTPNPNGKSOCTPCPAKPAVNAQATLGNDATITACNVIA 240

Db 181 RSFTECVKCRNFYNGNGNTPNPNGKSOCTPCPAKPAVNAQATLGNDATITACNVIA 240

Qy 241 CPDGTSAAQYNNWWAQNTCTNCAPNPNYNNAPNPNPGNSTCLCPKANQDYGAATAGG 300

Db 241 CPDGTSAAQYNNWWAQNTCTNCAPNPNYNNAPNPNPGNSTCLCPKANQDYGAATAGG 300

Qy 241 CPDGTSAAQYNNWWAQNTCTNCAPNPNYNNAPNPNPGNSTCLCPKANQDYGAATAGG 300

Db 241 CPDGTSAAQYNNWWAQNTCTNCAPNPNYNNAPNPNPGNSTCLCPKANQDYGAATAGG 300

Qy 301 AATLAQCNATACPDGTATASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANK 360

Db 301 AATLAQCNATACPDGTATASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANK 360

Qy 301 AATLAQCNATACPDGTATASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANK 360

Db 301 AATLAQCNATACPDGTATASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANK 360

Qy 361 YQAVATAGSTATLIAQCALECPAGTVLTDGTTSTYKQASECVKCAANFYTTKQDWWA 420

Db 361 YQAVATAGSTATLIAQCALECPAGTVLTDGTTSTYKQASECVKCAANFYTTKQDWWA 420

Qy 361 YQAVATAGSTATLIAQCALECPAGTVLTDGTTSTYKQASECVKCAANFYTTKQDWWA 420

Db 361 YQAVATAGSTATLIAQCALECPAGTVLTDGTTSTYKQASECVKCAANFYTTKQDWWA 420

Qy 421 GIDTCSCNKLTSGAEANLPESAKKNIQDFANFLS1SLLLISYLL 468

Db 421 GIDTCSCNKLTSGAEANLPESAKKNIQDFANFLS1SLLLISYLL 468

RESULT 2

Sequence 6 Application US/09498612

GENERAL INFORMATION:

APPLICANT: GAERTIG, Jacek

APPLICANT: DICKERSON JR., Harry W.

APPLICANT: CLARK, Theodore G.

APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.

TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN TITLE OF INVENTION: PROTOZOA

FILE REFERENCE: 235.00170101

CURRENT APPLICATION NUMBER: US/09/497, 967

CURRENT FILING DATE: 2000-02-04

PRIOR APPLICATION NUMBER: 60/131, 121

PRIOR FILING DATE: 1999-04-27

PRIOR APPLICATION NUMBER: 60/118, 334

PRIOR FILING DATE: 1999-02-04

PRIOR APPLICATION NUMBER: 60/122, 372

PRIOR FILING DATE: 1999-03-02

PRIOR APPLICATION NUMBER: 60/124, 905

PRIOR FILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 102

SEQ ID NO 54

TYPE: PRT

FEATURE:

ORGANISM: Artificial Sequence

OTHER INFORMATION: Description of Artificial Sequence: synthetic G5

US-09-497-967-54

Query Match Score 2533; DB 18; Length 468;

Best Local Similarity 99.8%; Pred. No. 2.8e-212; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKNNLVILISLFINQIKSANCPCVGETNTAGQVDDLGTPANCVNCQKNFYNNAAFFV 60

Db 1 MKNNLVILISLFINQIKSANCPCVGETNTAGQVDDLGTPANCVNCQKNFYNNAAFFV 60

Qy 61 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

Db 61 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

Qy 1 MKNNLVILISLFINQIKSANCPCVGETNTAGQVDDLGTPANCVNCQKNFYNNAAFFV 60

Db 1 PGASTCTPCPKDAGAQPNNPATAVLYTQCNVKCPAGTAAGGATDYAAIITECVNCRI 120

121 NFYNNENAPNEAGASTCTACPVNRYGALTAGNAATTIVACNVACPTGTAALDDGVTTOVV 180
 121 NFYNNENAPNEAGASTCTACPVNRYGALTAGNAATTIVACNVACPTGTAALDDGVTTOVV 180

181 RSFTECYKCRLNFFYNGNNGNTPENQGKSCQTCPIKPAVNAQNTLGNDAITTAQCNVA 240
 181 RSFTECYKCRLNFFYNGNNGNTPENQGKSCQTCPIKPAVNAQNTLGNDAITTAQCNVA 240

241 CPGTISAGYNNWVAQNTCTNCAPFNYNNAPNPGNSTCLCPAINDYGAETAGG 300
 241 CPGTISAGYNNWVAQNTCTNCAPFNYNNAPNPGNSTCLCPAINDYGAETAGG 300

301 AATLAKCNCNACPDGTAAASATANVILQPECLNCAANFYFGDNFNEQGSSRCKACPANK 360
 301 AATLAKCNCNACPDGTAAASATANVILQPECLNCAANFYFGDNFNEQGSSRCKACPANK 360

Db 361 VQGAVATAGGTTATLQCALECPAGTVLTDGTTSVTKQAASECYKCAANFYTTKQTDWVA 420
 Db 361 VQGAVATAGGTTATLQCALECPAGTVLTDGTTSVTKQAASECYKCAANFYTTKQTDWVA 420

Qy 421 GIDTCTSCKNKLTSGAANEALPESAKNNICQDFANFLSISLLSYYLL 468
 Db 421 GIDTCTSCKNKLTSGAANEALPESAKNNICQDFANFLSISLLSYYLL 468

RESULT 5
 US-09-498-612-5

Sequence 5, Application US/09498612

GENERAL INFORMATION:
 APPLICANT: GAERTIG, Jacek
 APPLICANT: DICKERSON Jr., Harry W.
 APPLICANT: CLARK, Theodore G.
 APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC
 TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN PROTOZOA
 FILE REFERENCE: 235_001001
 CURRENT APPLICATION NUMBER: US/09/498-612
 CURRENT FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: 60/118,634
 PRIOR FILING DATE: 1999-04-04
 PRIOR APPLICATION NUMBER: 60/122,372
 PRIOR FILING DATE: 1999-03-02
 PRIOR APPLICATION NUMBER: 60/124,905
 PRIOR FILING DATE: 1999-03-17
 PRIOR APPLICATION NUMBER: 60/131,121
 PRIOR FILING DATE: 1999-04-27
 NUMBER OF SEQ ID NOS: 14
 SEQ ID NO 5
 LENGTH: 442
 TYPE: PRT
 ORGANISM: Ichthyophthirius multifiliis
 US-09-498-612-5

Query Match 36.3%; Score 921; DB 18; Length 442;
 Best Local Similarity 41.8%; Pred. No. 2.2e-71; Gaps 19;
 Matches 214; Conservative 45; Mismatches 139; Indels 114; Gaps 19;

Qy 1 MKNNILVLLIISLFINQKSAANCPCVPGTETNTAGQVD---DIGTPANCYNCQKNEYNNNA 56
 1 MKNNILVLLIISLFINQKSAANCPCVPGTETNTAGQVD---DIGTPANCYNCQKNEYNNNA 56

Db 72 -----NAARGICVCPQINRGSVTNAQGDLATIATOCSTQCPGTGALDDGVT 117
 Db 72 -----NAARGICVCPQINRGSVTNAQGDLATIATOCSTQCPGTGALDDGVT 117

Qy 57 AAFVPGASTCTCPQKKRAGAOPNPATANLYTQCNVKCPGATAIAGGATDYAA1ITECY 116
 Db 57 AA-----QGEANGNQOPPAN-----71
 Db 57 AA-----QGEANGNQOPPAN-----71

Qy 117 NCRINFYENAPNEAGASTCTACPVNRYGALTAGNAATTIVACNVACPTGTAALDDGVT 176
 1 NCRINFYENAPNEAGASTCTACPVNRYGALTAGNAATTIVACNVACPTGTAALDDGVT 176

Db 72 -----NAARGICVCPQINRGSVTNAQGDLATIATOCSTQCPGTGALDDGVT 117
 Db 72 -----NAARGICVCPQINRGSVTNAQGDLATIATOCSTQCPGTGALDDGVT 117

Qy 177 TDYVRSFTECYKCRLNFFYNGNNGNTP---FNPG-----KSCQTCPAIPKPN 221
 Db 177 TDYVRSFTECYKCRLNFFYNGNNGNTP---FNPG-----KSCQTCPAIPKPN 221

Db 118 DVFDRSAQCVKCKPNEYNGGSPQEGPVQVFAAGAAAAGVAAVTSSCVCPCQLNK-N 175
 Db 118 DVFDRSAQCVKCKPNEYNGGSPQEGPVQVFAAGAAAAGVAAVTSSCVCPCQLNK-N 175


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; FILE REFERENCE: 235.00170101 US/09/497.967
; CURRENT APPLICATION NUMBER: US/09/497.967
; CURRENT FILING DATE: 2000-02-04
; PRIORITY NUMBER: 60/131,121
; PRIORITY NUMBER: 1999-04-27
; PRIORITY NUMBER: 60/118,634
; PRIORITY NUMBER: 1999-02-04
; PRIORITY NUMBER: 60/122,372
; PRIORITY NUMBER: 1999-03-02
; PRIORITY NUMBER: 60/124,905
; PRIORITY NUMBER: 1999-03-17
; PRIORITY NUMBER: 60/124,905
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 55
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-55

Query Match 15.9%; Score 404; DB 18; Length 72;
Best Local Similarity 100.0%; Pred. No. 3.5e-27;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
SEQ ID NO: 60
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-55

Query Match 15.9%; Score 404; DB 18; Length 72;
Best Local Similarity 100.0%; Pred. No. 3.5e-27;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
SEQ ID NO: 60
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-55

Query Match 15.3%; Score 389; DB 18; Length 72;
Best Local Similarity 100.0%; Pred. No. 7.1e-26;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
SEQ ID NO: 60
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-55

Qy 83 ATANLYTQCNVK 94
Db 61 ATANLYTQCNVK 72

RESULT 1.1
US-09-497-967-58
; Sequence 58, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497.967
; CURRENT FILING DATE: 2000-02-04
; PRIORITY NUMBER: 60/131,121
; PRIORITY NUMBER: 1999-04-27
; PRIORITY NUMBER: 60/118,634
; PRIORITY NUMBER: 1999-02-04
; PRIORITY NUMBER: 60/122,372
; PRIORITY NUMBER: 1999-03-02
; PRIORITY NUMBER: 60/124,905
; PRIORITY NUMBER: 1999-03-17
; PRIORITY NUMBER: 60/124,905
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 58
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-58

Query Match 15.9%; Score 403; DB 18; Length 71;
Best Local Similarity 100.0%; Pred. No. 4.2e-27;
Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
SEQ ID NO: 58
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-58

Qy 301 AATLAKONIA 311
Db 61 AATLAKONIA 71

RESULT 1.2
US-09-497-967-60
; Sequence 60, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497.967
; CURRENT FILING DATE: 2000-02-04
; PRIORITY NUMBER: 60/131,121
; PRIORITY NUMBER: 1999-04-27
; PRIORITY NUMBER: 60/118,634
; PRIORITY NUMBER: 1999-02-04
; PRIORITY NUMBER: 60/122,372
; PRIORITY NUMBER: 1999-03-02
; PRIORITY NUMBER: 60/124,905
; PRIORITY NUMBER: 1999-03-17
; PRIORITY NUMBER: 60/124,905
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 56
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-60

Query Match 14.8%; Score 375; DB 18; Length 70;
Best Local Similarity 100.0%; Pred. No. 1.2e-24;
Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 95 CPAGTAAGGATDYAAITECYNCRINFYNNENAPNENAGASTCTACPVNRVGALLAGNA 154
 Db 1 CPAGTAAGGATDYAAITECYNCRINFYNNENAPNENAGASTCTACPVNRVGALLAGNA 60

Qy 155 ATIVACQNVNA 164
 Db 61 ATIVACQNVNA 70

RESULT 14
 US-09-497-967-59
 Sequence 59, Application US/09497967
 GENERAL INFORMATION:
 ; APPLICANT: Clark, Theodore G.
 ; APPLICANT: Dickerson, Jr., Harry W.
 ; APPLICANT: Lin, Tian-Long
 ; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
 ; TITLE OF INVENTION: ICHTHIOPHTHIRIUS
 ; FILE REFERENCE: 235 00170101
 ; CURRENT APPLICATION NUMBER: US/09/497,967
 ; CURRENT FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: 60/131,121
 ; PRIOR FILING DATE: 1999-04-27
 ; PRIOR APPLICATION NUMBER: 60/118,634
 ; PRIOR FILING DATE: 1999-02-04
 ; PRIOR APPLICATION NUMBER: 60/122,372
 ; PRIOR FILING DATE: 1999-03-02
 ; PRIOR APPLICATION NUMBER: 60/124,905
 ; PRIOR FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 102
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 59
 ; LENGTH: 70
 ; TYPE: PRT
 ; ORGANISM: Ichthyophthirius multifiliis

US-09-497-967-59

Query Match 14.7% Score 373; DB 18; Length 70;
 Best Local Similarity 100.0%; Prec. No. 1.7e-24; Indels 0; Gaps 0;

Qy 312 CPDGTAIASGATNVILQPECLNGAANFQDGNNFQAGSSRCKACPANKVQGAVATAGGT 371
 Db 1 CPDGTAIASGATNVILQPECLNGAANFQDGNNFQAGSSRCKACPANKVQGAVATAGGT 60

Qy 372 ATLIAQCALE 381
 Db 61 ATLIAQCALE 70

RESULT 15

US-10-123-155-301
 Sequence 301, Application US/10123155
 GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Bersini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Destroyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Godard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Collin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME

Query Match 10.2% Score 258; DB 25; Length 1576;
 Best Local Similarity 29.7%; Prec. No. 1e-12; Mismatches 10; Indels 94; Gaps 20;

Qy 42 ANCYNCQKNFYNNNAATVPVGASTCTCPQPKDAGAQPNPATTANLYTQCNVKCPGATAI 101
 Db 5 AGCATC-----TTAATTGATCACAC-----AAAGCTT-----CAGTAA 39

Qy 102 AGGATDYAAITCVCNCRINFYNNENAPNENAGASTCTACPVNRVGALLAGNAATIVAQC 161
 Db 40 TGAAAAGAA-ATACA-----TAATTAAATTCAAC-----CCGAGT-GTTTCCAAG 84

Qy 162 NYACPTGTAALDDGVTIDYRSFTECVCRLNEYNNNGNNTPENPKSQCCTCPA1KPN 221
 Db 85 AAGATGTATTGCTT-AARTGCTAC-----AGTAATTCAA-----120

Qy 222 VAQATLGNDAITTAQCNVACPDGTISAGVNNWVAQNTCTNCAPFNYNNNAPNFPGNS 281
 Db 121 -----GAGACAGCCCMGTCGACAG-----AGTTACTGTTGTTAA-GAGAC 167

Qy 282 TCLPCPANKDYGAEATAGGAATLAKQCNIACPDGTIASGATNYV-TLQTCCLNCANFY 340
 Db 168 TCAGTTAACG-AATTAGGAATTTCGATTAAAGGATTACAAATTTCATCACCC 226

Qy 341 FDGNNFQAGSSRCKACP-ANKVQGAVATAGGTAAQCALECPGTVLTDGTTSTYKQ 398
 Db 227 CTG-----AAAACTAAGCRAATTGA-ACAGGAAAAAAGAGGA-TGGGTITTT 278

Qy 399 AASECVKCAANFYTTKQTDWYAGIDFTCSNKLTSG 435
 Db 279 ARGTC---CAA---TATATGTTATTTCCTCTTTTG 310

Search completed: February 11, 2003, 19:53:49
 Job time : 143.457 secs

